## 4,154,658 608 78

## United States Patent [19]

Nauflett

[11] **4,154,658** [45] **May 15, 1979** 

[54]	PURIFICATION OF 1,1-DIMETHYL HYDRAZINE (UDMH) CONTAINING FORMALDEHYDE DIMETHYL		[56]	F	deferences Cited	
			U.S. PATENT DOCUMENTS			
HYDRAZ			2,676,911 2,698,286	4/1954 12/1954	Nicolaisen Bircher, Jr	
[75]	Inventor:	George W. Nauflett, Oxon Hill, Md.	2,806,851 2,876,173	3/1959	Sisler et al Nicolaisen	203/14
[73]	Assignee:	The United States of America as represented by the Secretary of the	2,963,407 3,012,948 3,098,017 4,038,321	12/1961 7/1963	Horvitz et al Walter, Jr. et al Thatcher et al	203/59
[21]	Appl. No.:	Navy, Washington, D.C.	Primary Examiner—Wilbur L. Bascomb, Jr. Attorney, Agent, or Firm—R. S. Sciascia; A. L. Branning; H. B. Field			
	••		[57]		ABSTRACT	
[22]	Filed:	Jul. 3, 1978	The formaldehyde hydrazone of UDMH can be re- moved from an aqueous solution of UDMH by codistil-			
[51]	Int. Cl. <sup>2</sup>	B01D 3/36; C07C 109/02; C07C 109/14	lation with a hydrocarbon or other solvent which is inert to both acidic or basis mediums. The solvent can then be recovered from the hydrazone solution by washing with an acid solution and the solvent can be reused.  6 Claims, No Drawings			
[52]		203/59; 203/14; 3/35; 203/37; 203/43; 203/63; 203/64; 203/69; 203/70; 260/583 B				
[58]	Field of Sea	203/59, 63, 64, 69, 203/70, 34, 35, 43, 14, 37; 260/583 B				